

TECHNICAL SPECIFICATIONS

Equipment No's: Ref. Enclosed page

Spec. No.: HWDP-5-07

5" OD Heavy-Weight Drill Pipe, 4145, NC-50 DSTJ Conn's.

New

Premium

DESCRIPTION

Type
Range
Conventional=welded T-J. / Integral=Monoblock

80% remaining Body Wall
AISI-4145H, 42.49#
2
Conventional

TUBE DATA

Material grade	AISI-4145M (110 ksi)				
Internal plastic coating	NA				
Tube body OD x ID	inch	5,000	3,000	4,600	3,000
Wall thickness, nominal	inch	1,000		0,800	
Cross Sectional Area	inch ²	12,566		9,550	
Polar Sectional Modulus	inch ³	21,363		15,654	
Tensile yield pipe	lbf	1 382 300		1 050 500	
	kN	6 149		4 673	
Torsional yield pipe	lbf-ft	113 000		82 800	
	kNm	153,2		112,3	
80% Torsional Yield	lbf-ft	90 400		66 240	
	kNm	122,6		89,8	

CONNECTION DATA

Connection type	NC-50 DSTJ				
Stress Relief Grooves	NA				
Material grade	AISI-4145M (110 ksi)				
Hardbanding	Arnco-300XT				
OD x ID	inch	6,625	3,000	6,313	3,000
B.S.R.	x : 1	2,28		1,85	
Tensile yield tooljoint	lbf	1 280 600		1 061 800	
	kN	5 696		4 723	
Torsional yield tooljoint	lbf-ft	67 930		57 360	
	kNm	92,1		77,8	
Make up torque Maximum	lbf-ft	47 500		40 200	
	kNm	64,4		54,5	

OPERATIONAL DATA

Tool joint/Drill pipe torsional ratio	0,60		0,82	
Drift diameter	inch	2,875		
Type of elevator shoulder:		18°		
Burst pressure	psi	38 500		35 200
	Mpa	265		243
Collapse pressure	psi	35 200		31 610
	MPa	243		218
Adjusted weight	lbs/ft	51,64		
	kg/mtr	76,8		
Approx weight each joint	lbs	1 601		
	kg	726		
Capacity	gal/ft	0,369		
	litr/mtr	4,58		
Open end displacement	gal/ft	0,80		
	litr/mtr	9,94		
Closed end displacement	gal/ft	1,17		
	litr/mtr	14,52		
Built In Length (shoulder to shoulder)	ft	31,0		
	mtr	9,45		

Calculated using nominal OD & ID. Safety & Dope friction factor used: 1.0

Values herein is meant as guidelines only. Odfjell will not be held liable for any damage or injuries !

<i>String number:</i>	<i>Joints:</i>	<i>Individual serial numbers:</i>
OWS-HWDP-518-DSTJ	65	OWS-30500 to OWS-30564